



DONALD L. WOLFE, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

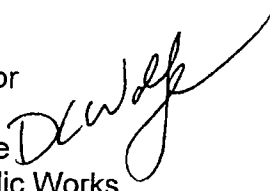
ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

IN REPLY PLEASE

REFER TO FILE: **RM-4**
A2521

October 2, 2007

TO: Each Supervisor

FROM: Donald L. Wolfe 
Director of Public Works

BOARD MOTION OF AUGUST 7, 2007
AGENDA ITEM 49-A
BRIDGE REPORT

On August 7, 2007, Supervisor Michael D. Antonovich brought in a Motion, Item 49-A (Attachment A), directing Public Works to report back on the condition of the bridges in Los Angeles County regarding four issues of concern.

Provide a description of the County's program for inspecting bridges in Los Angeles County:

The State of California Department of Transportation (Caltrans) inspects all of the State-owned and most of the non-State bridges in California. We are one of only two agencies in the State that have been authorized by Caltrans to inspect bridges for compliance with National Bridge Inspection (NBI) requirements. We inspect all of the non-State-owned bridges that meet NBI standards in the County, except those owned by the City of Los Angeles or railroad agencies. Our inspections are performed under agreement with Caltrans and our costs are reimbursed. We prepare and use inspection reports to prioritize the maintenance work needed for bridges and to determine which of these bridges qualify for Federal funding for major rehabilitation work or replacement. We provide the cities with copies of the inspection reports for bridges within their jurisdiction.

We have two experienced bridge inspectors that perform routine biennial bridge inspections. Two registered Civil Engineers review the field work, certify the inspection reports, and oversee the bridge inspection program.

Bridge inspection standards are set by the National Bridge Inspection Program, which applies to all bridges greater than 20 feet in length that are located on or over public right of way. These standards require biennial inspections and establish minimum qualification and training standards for bridge inspectors and program managers.

Identify any special requirements for bridge construction due to the high levels of seismic activity in Southern California:

The high level of seismic activity and probability of future seismic events in Southern California have resulted in special consideration for the design and construction of bridges over or under public roadways. Public Works and the 88 cities within Los Angeles County are required to design their bridges to comply with Caltrans' Design Standards. These standards include specific requirements to address earthquake loads unique to Southern California.

Determine whether there are any bridges that are at risk and may require modification and, if so, identify a work program and potential funding sources:

There are no bridges in Los Angeles County that pose a danger to the traveling public.

There are two general categories of bridges in need of repair or rehabilitation: those with low condition ratings (Attachment B) and those in need of seismic retrofit to comply with current seismic standards (Attachment C).

Low Condition Ratings:

Caltrans maintains a list of bridges in need of priority repair or replacement based upon their sufficiency rating and whether they have been designated as Structurally Deficient. The term Structurally Deficient was developed by the Federal Highway Administration (FHWA) to establish which bridges are eligible for Federal funding for rehabilitation or replacement. Of the approximately 4,000 bridges in Los Angeles County, 29 meet these criteria; 17 bridges are under jurisdiction of Caltrans, 10 bridges are in various cities in the County, and 2 bridges are in County unincorporated areas. Attachment B identifies these bridges and the needed repairs.

Bridge Seismic Retrofit Program:

The State established a mandatory program after the October 1989 Loma Prieta Earthquake to analyze and retrofit bridges to current seismic standards.

Bridges not meeting current seismic design standards, such as bridges with column piers constructed before 1973, were analyzed. There were 300 non-State bridges

Each Supervisor
October 2, 2007
Page 3

within Los Angeles County identified for seismic retrofit study. Of these, 166 have been rehabilitated, 51 do not require retrofit, and 83 remain to be rehabilitated.

The remaining 83 bridges have not been retrofitted because State funding of the local match (20 percent) was eliminated in July 2003 by State legislation. Since local agencies were not prepared for this additional demand on their already limited transportation dollars, construction was delayed until funding could be identified for the local match.

With the enactment of the Safe Accountable Flexible Efficient Transportation Equity Act-A Legacy for Users in 2005, the local match requirement for bridge rehabilitation and replacement projects was reduced from 20 percent to 11.43 percent. In addition, the recently approved State Proposition 1B provides \$125 million Statewide to fund the remaining local match for the Local Bridge Seismic Retrofit Program. This funding will enable the County and the cities to proceed with the retrofit of the 83 bridges remaining in the Local Seismic Retrofit Program and they have been scheduled for construction. The status of each bridge is shown on Attachment C.

Determine if the County's existing procedures for bridge inspection are adequate or whether changes should be made:

Our bridge engineers and bridge inspectors follow procedures that are in full compliance with the national standards set by the FHWA. These standards were developed by using extensive, national experience with transportation asset management and investigations of individual bridge tragedies across the nation. These inspection practices have proven to be adequate and appropriate.

If you have any further questions concerning the condition of bridges in Los Angeles County or our bridge inspection program, please call me, or your staff may contact Dean Lehman, Assistant Deputy Director for Road Maintenance Division, at (626) 458-5900.

JD:jg

P:\rmpub\MD4\MD4ADM\STAFF\JGomez\A-Memos\A-Memo No. 2521 SD1.doc

Attach.

cc: Chief Executive Office (William T Fujioka, Lari Sheehan)
Executive Office



MINUTES OF THE BOARD OF SUPERVISORS
COUNTY OF LOS ANGELES, STATE OF CALIFORNIA

Sachi A. Hamai, Executive Officer-
Clerk of the Board of Supervisors
383 Kenneth Hahn Hall of Administration
Los Angeles, California 90012

A-2521
RMD

At its meeting held August 7, 2007, the Board took the following action:

49-A

Supervisor Antonovich made the following statement:

"The collapse of a bridge in Minneapolis was a horrific event resulting in both fatalities and severe injuries. The video and eyewitness accounts give us all pause when thinking about how often we travel over bridges on a daily basis.

"There are more than a thousand bridges in unincorporated County and the 88 cities. The public wants to be certain that bridges are periodically inspected and analyzed."

Donald L. Wolfe, Director of Public Works, responded to questions posed by the Board.

After discussion, on motion of Supervisor Antonovich, seconded by Supervisor Burke, unanimously carried (Supervisor Molina being absent), the Director of Public Works was directed to report back to the Board within 60 days on the following issues regarding the condition of bridges throughout Los Angeles County and take the following actions:

1. Provide a description of the County's program for inspecting bridges in the County;
2. Identify any special requirements for bridge construction due to the high levels of seismic activity in Southern California;
3. Determine whether there are any bridges that are at risk and may require modification, and, if so; identify a work program and potential funding sources; and
4. Determine if the County's existing procedures for bridge inspection are adequate or whether changes should be made.

09080707_49-A

Copies distributed:

Each Supervisor
Chief Executive Officer
County Counsel
Director of Public Works

Attachment B
Bridge List for the County of Los Angeles

Bridge Name	Owner	Sufficiency Rating	Description of Need	Status	TG-PG	Sup. Dist.
Main Street	State	45.3	Rail	Proposed repair	671-E3	3
Garipito Creek	State	46.5	Capacity Rating	No activity	590-C3	3
Santa Clara River	State	40.5	Deck/ substructure	Replacement completed	4550-C2	5
LACTC Access Road over-crossing	State	37	Capacity Rating	No activity	594-F2	5
Hobart Yard overhead	State	50	Functional improvement	Widening	594-F3	5
East Yard overhead	State	48	Deck Condition	Programmed repair	594-F3	5
Cleveland Street under-crossing	State	48	Functional improvement	No activity	600-G7	1
Mountain Avenue under-crossing	State	43	Functional improvement	No activity	601-C5	1
Eastbound 60/I-5 separation	State	49	Paint/deck/ superstructure	Proposed repair	635-A7	1
Texaco overhead	State	22	Substructure	Proposed repair	732-G2	3
Cedar Valley Way over-crossing	State	38.8	Capacity rating	No activity	4551-H5	5
Schuyler Heim lift bridge	State	27.9	Deck/ supersubstructure	Programmed replacement	824-H1	4
5/10/101 freeway split	State	21	Superstructure	Programmed repair	624-J4	1
Santa Monica Viaduct "C"	State	45	Deck condition	Proposed repair	671-E3	3
Santa Monica Viaduct "F"	State	46	Deck condition	Proposed repair	671-E3	3
Kana Road over-crossing	State	65.3	Superstructure	Proposed project	558-A5	3
Vincent Thomas Bridge	State	57.6	Deck/ superstructure	Project underway	824-D3	4
Soledad Canyon Road over railroad	County	19	Substructure	Proposed bridge replacement. We are currently seeking grant funding from Caltrans to fund the design and construction costs for the bridge replacement project. We expect Caltrans' approval of our funding request by March 2008, after which we will proceed with the design of the project.	4464-E6	5

Attachment B
Bridge List for the County of Los Angeles

Bridge Name	Owner	Sufficiency Rating	Description of Need	Status	TG-PG	Sup. Dist.
Circle Trail over Garipito Creek	County	46.5	Substructure	Proposed bridge replacement. We are currently seeking grant funding from Caltrans to fund the design and construction costs for the bridge replacement project. We expect Caltrans' approval of our funding request by March 2008, after which we will proceed with the design of the project.	590-B5	3
Colorado Avenue over Appian Way	Santa Monica	7.6	Deck condition	Proposed bridge replacement City is currently seeking grant funding from Caltrans to fund the design and construction costs for the bridge replacement project. City expects Caltrans' approval of funding request by October 2007, after which they will proceed with the design of the project. City posted weight restriction signs	671-E3	4
Santa Anita Avenue over Rio Hondo Channel	El Monte	21.1	Deck condition	City has no plans or funding for replacement of the bridge at this time.	597-D4	1
Garvey Avenue over Mabel Avenue	Monterey Park	27.1	Deck condition	No activity	635-J2	1
Firestone Boulevard over Coyote Creek	La Mirada	28.3	Deck Condition	Bridge has S.D. flag and appears to qualify as Replacement Project. City does not have any plans at this time. Proposed I-5 widening project will require moving bridge since Firestone Blvd will be realigned. Caltrans has not set any date yet for this I-5 widening project.	737-F6	4

Attachment B
Bridge List for the County of Los Angeles

Bridge Name	Owner	Sufficiency Rating	Description of Need	Status	TG-PG	Sup. Dist.
California Incline over Pacific Coast Highway	Santa Monica	31.5	Substructure	Proposed bridge rehab. City is currently seeking grant funding from Caltrans to fund the design and construction costs for the bridge rehab project. City expects Caltrans' approval of funding request by October 2007, after which they will proceed with the design of the project. City posted weight restriction signs	671-D2	3
Ocean Boulevard over Entrance Channel/Railroad	Long Beach	43	Deck condition	Proposed Bridge Replacement. Received funding from MTA for \$17 mil under the 2007 call for projects. EIR is currently being completed.	825-F6	4
Firestone Boulevard over San Gabriel River	Norwalk and Downey	48.9	Superstructure	Proposed Bridge Replacement. Received funds from HBP for \$3.2 mil. Also received funding from MTA call for projects for \$1.5 mil over 5 years. Estimated start of construction is 2010.	706-D6	4
Valley Boulevard over Rio Hondo Channel	El Monte	49.1	Deck condition	City has no plans or funding for replacement of the bridge at this time.	597-C7	1
9 th Street over San Antonio Wash	Pomona	49.6	Deck condition	City will have a response on what they plan to do with this bridge in the next couple of weeks.	641-C2	1
Cerritos Avenue over Big Dalton Wash	Azusa	49.7	Deck condition	City is looking into a proposal to complete the necessary repairs or replace the bridge. Will have a direction from the City in the next few weeks.	599-A2	1

Attachment C
Bridge Seismic Retrofit List

Supervisor District	Bridge Name	Owner	Status	FY Funded	TG pg
1	1ST STREET VIADUCT / GLENDALE BLVD	Los Angeles	CITY ADMINISTERED	2009-10	634-E2
1	AVE 19 W RDWY / ARROYO SECO CHANNEL	Los Angeles	CITY ADMINISTERED	2007-08	594-J7
1	AVE 19-E RDWY / ARROYO SECO CHANNEL	Los Angeles	CITY ADMINISTERED	2007-08	594-J7
1	AVENUE 26 / ARROYO SECO CHANNEL	Los Angeles	CITY ADMINISTERED	2010-11	594-J7
1	FIRESTONE BLVD / RIO HONDO CHANNEL	South Gate	CITY ADMINISTERED	2007-08	705-G4
1	FLETCHER DR / LOS ANGELES RIVER	Los Angeles	CITY ADMINISTERED	2009-10	594-E3
1	FOURTH ST / LORENA ST	Los Angeles	CITY ADMINISTERED	2007-08	635-C6
1	GARVEY AVE / RIO HONDO	Rosemead	CITY ADMINISTERED	under const.	636-F2
1	GRAND AVE REALIGNMENT	Los Angeles	CITY ADMINISTERED	2008-09	732-D2
1	N MAIN ST / LOS ANGELES RIVER	Los Angeles	CITY ADMINISTERED	2007-08	634-J1
1	NORTH SPRING ST / LOS ANGELES RIVER	Los Angeles	CITY ADMINISTERED	2009-10	634-J1
1	SIXTH ST / LOS ANGELES RIVER	Los Angeles	CITY ADMINISTERED	2010-11	634-H5
1	1ST STREET / OVER WHITE AVENUE	Pomona	DESIGN COMPLETED	2007-08	640-J2
1	1ST STREET / TOWNE AVENUE	Pomona	DESIGN COMPLETED	2007-08	641-A1
1	AT & SF RR / AZUSA UP (FOOTHILL BLVD)	Azusa	DESIGN COMPLETED	2007-08	568-H6
1	AZUSA AVE / VALLEY	City of Industry / La Puente	DESIGN COMPLETED	2008-09	678-G2
1	AZUSA CYN RD / BIG DALTON WASH	Irwindale	DESIGN COMPLETED	2007-08	088-A4
1	BEVERLY BLVD / UPRR	Pico Rivera	DESIGN COMPLETED	2008-09	676-J3
1	FLORENCE AVE / RIO HONDO	Downey / Bell Gardens	DESIGN COMPLETED	2007-08	705-J2
1	FOOTHILL BLVD / SAN GABRIEL RIVER	Irwindale	DESIGN COMPLETED	2008-09	568-E5
1	IMPERIAL HIGHWAY / SAN GABRIEL RIV & FRT RD	Downey / Norwalk	DESIGN COMPLETED	2007-08	736-D1

Attachment C
Bridge Seismic Retrofit List

Supervisor District	Bridge Name	Owner	Status	FY Funded	TG pg
1	IRWINDALE AVE / BIG DALTON WASH	Irwindale	DESIGN COMPLETED	2007-08	598-F4
1	OWENS-ILL CONVEYOR / FRUITLAND AVE	Vernon	DESIGN COMPLETED	Not eligible for FHWA funding	675-A4
1	SLAUSON AVE / LOS ANGELES RIVER	Bell	DESIGN COMPLETED	2007-08	675-F6
1	SLAUSON AVE / SAN GABRIEL RIV BOH (AT&SF)	PRV/ SFS/ LACO	DESIGN COMPLETED	2008-09	706-G1
1	SOTO ST / LOS ANGELES RIVER	Vernon	DESIGN COMPLETED	2008-09	674-J2
1	SPTC RR / OVER GAREY AVE	Pomona	DESIGN COMPLETED	2007-08	640-J2
1	SPTC RR / SANTA ANITA AVE	El Monte	DESIGN COMPLETED	2008-09	597-C6
1	UNION PACIFIC RR / PECK RD, SAN JOSE CRK	City of Industry	DESIGN COMPLETED	2008-09	637-C7
1	UPRR / OVER GAREY AVE	Pomona	DESIGN COMPLETED	2007-08	640-J2
1	VALLEY BLVD / SPTC RR	City of Industry	DESIGN COMPLETED	2008-09	678-E1
1	WASHINGTON BLVD / RIO HONDO	Pico Rivera / Montebello	DESIGN COMPLETED	2007-08	676-D5
1	WASHINGTON BLVD / SAN GABRIEL RIVER	Pico Rivera	DESIGN COMPLETED	2008-09	676-G7
2	182ND STREET / DOMINGUEZ CHANNEL	Los Angeles	CITY ADMINISTERED	2006-07	764-B1
2	LA CIENEGA BLVD / BALLONA CREEK	Los Angeles	CITY ADMINISTERED	2006-07	633-A7
2	SEPULVEDA BLVD / DOMINGUEZ CHANNEL	Carson	CITY ADMINISTERED	2008-09	794-J3
2	ALAMEDA ST / COMPTON CR	Commerce	DESIGN COMPLETED	2007-08	735-A7
2	ALONDRA BLVD / LOS ANGELES RIVER	Paramount / Commerce	DESIGN COMPLETED	2007-08	735-E5
2	AVALON BLVD / DOMINGUEZ CHANNEL	Carson	DESIGN COMPLETED	2008-09	764-E5
2	OLEANDER AVE / COMPTON CREEK	Commerce	DESIGN COMPLETED	2007-08	734-J5

Attachment C
Bridge Seismic Retrofit List

Supervisor District	Bridge Name	Owner	Status	FY Funded	TG pg
2	UPRR / SANTA FE AVENUE UP	Carson	DESIGN COMPLETED	2007-08	765-A6
2	VERMONT AVE / AT & SF RR	County	DESIGN COMPLETED	2007-08	794-B3
2	WILMINGTON AV 223 / DOMINGUEZ CH	Carson	DESIGN COMPLETED	2008-09	764-G7
3	CANOGA AVE / LOS ANGELES RIVER	Los Angeles	CITY ADMINISTERED	2006-07	530-B5
3	CORBIN AVE / LOS ANGELES RIVER	Los Angeles	CITY ADMINISTERED	2006-07	530-F6
3	DEVONSHIRE ST / PACOIMA WASH CHANNEL	Los Angeles	CITY ADMINISTERED	2007-08	502-A4
3	MASON AVENUE / LOS ANGELES RIVER	Los Angeles	CITY ADMINISTERED	2006-07	530-D5
3	TAMPA AVE / LOS ANGELES RIVER	Los Angeles	CITY ADMINISTERED	2007-08	530-G6
3	VANOWEN ST / LOS ANGELES RIVER	Los Angeles	CITY ADMINISTERED	2008-09	530-D5
3	WINNETKA AVE / LOS ANGELES RIVER	Los Angeles	CITY ADMINISTERED	2008-09	530-E6
4	10TH ST OFF RAMP / LONG BEACH FWY	Long Beach	DESIGN COMPLETED	2007-08	795-B7
4	6TH ST OFF RAMP / LONG BEACH FWY	Long Beach	DESIGN COMPLETED	2007-08	795-C7
4	7TH ST / SAN FRANCISCO AVE (MTA)	Long Beach	DESIGN COMPLETED	2007-08	075-B5
4	9TH ST RAMP / HARBOR SCENIC	Long Beach	DESIGN COMPLETED	2007-08	795-B6
4	ANAHEIM ST / LONG BEACH FWY	Long Beach	DESIGN COMPLETED	2007-08	795-C6
4	ARTESIA BLVD / LOS ANGELES RIVER	Long Beach	DESIGN COMPLETED	2007-08	735-D7
4	COLLEGE PARK DR / SAN GABRIEL RIVER	Long Beach	DESIGN COMPLETED	2007-08	796-F7
4	MARTIN L KING JR AVE / SPTC RR	Long Beach	DESIGN COMPLETED	2007-08	795-E3
4	QUEENSWAY NB / SHORELINE DRIVE	Long Beach	DESIGN COMPLETED	2007-08	825-D1
4	QUEENSWAY -SB (RAMP J) / HARBOR SCENIC DRIVE	Long Beach	DESIGN COMPLETED	2007-08	825-C2
4	QUEENSWAY SB / SHORELINE DRIVE	Long Beach	DESIGN COMPLETED	2007-08	825-C2

Attachment C
Bridge Seismic Retrofit List

Supervisor District	Bridge Name	Owner	Status	FY Funded	TG pg
4	QUEENSWAY-SB (RAMP K) / QUEENSWAY SB OC	Long Beach	DESIGN COMPLETED	2007-08	825-D1
4	UNION PACIFIC RR / OVER CHERRY AVE	Lakewood	DESIGN COMPLETED	2008-09	765-G3
4	UNION PACIFIC RR / OVER LONG BEACH BLVD UP	Long Beach	DESIGN COMPLETED	2007-08	765-D4
4	UNION PACIFIC RR / WILLOW ST UP	Long Beach	DESIGN COMPLETED	2008-09	795-A3
4	WILLOW ST / COYOTE CREEK	Long Beach / Orange County	DESIGN COMPLETED	2007-08	796-H3
5	FOOTHILL BLVD / NORTH BRANCH TUJUNGA	Los Angeles	CITY ADMINISTERED	2006-07	504-B5
5	THE OLD RD / CASTAIC CREEK	County	DESIGN COMPLETED	2009-10	4459-H5
5	AT & SF RR / ALOSTA AVE	Glendora	DESIGN COMPLETED	2008-09	569-H6
5	AT & SF RR / ARCADIA UNDERPASS (HUNTINGTON DRIVE)	Arcadia	DESIGN COMPLETED	2007-08	567-C4
5	AT & SF RR / COLORADO BLVD	Arcadia	DESIGN COMPLETED	2008-09	567-C4
5	AVE T / SPTC RR	County	DESIGN COMPLETED	2007-08	4288-B5
5	EAST FORK ROAD / E FK SAN GABRIEL RIVER	County	DESIGN COMPLETED	2008-09	510-C6
5	EAST FORK ROAD / N FK SAN GABRIEL RIVER	County	DESIGN COMPLETED	2008-09	509-F5
5	OAK GROVE DR / ARROYO SECO BRIDGE	Pasadena	DESIGN COMPLETED	2007-08	535-E6
5	OAK GROVE DR / FLINT CANYON WASH	Pasadena / La Canada Flintridge	DESIGN COMPLETED	2007-08	535-E6
5	S. 4TH STREET POC / ALHAMBRA HIGH SCHOOL	Alhambra	DESIGN COMPLETED	Pending Caltrans	596-B5
5	SPTC RR / 25TH ST EAST UP	Palmdale	DESIGN COMPLETED	2008-09	4286-E4
1, 3	GLENDALE BLVD / HYPERION AVE VIADUCT	Los Angeles	CITY ADMINISTERED	2009-10	594-D2
1, 3	GLENDALE BLVD / HYPERION AVE VIADUCT	Los Angeles	CITY ADMINISTERED	2009-10	594-D2
1, 3	GLENDALE BLVD / HYPERION AVE VIADUCT	Los Angeles	CITY ADMINISTERED	2009-10	594-D2

Attachment C
Bridge Seismic Retrofit List

Supervisor District	Bridge Name	Owner	Status	FY Funded	TG pg
1, 3	GLENDAL BLVD / HYPERION AVE VIADUCT	Los Angeles	CITY ADMINISTERED	2009-10	594-D2
1, 3	GLENDAL BLVD / HYPERION AVE VIADUCT	Los Angeles	CITY ADMINISTERED	2009-10	594-D2